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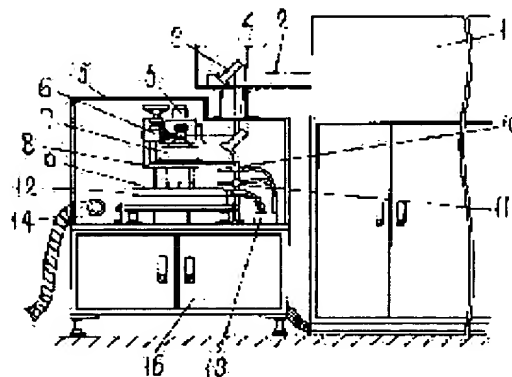
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(54) CO2 LASER BEAM MACHINE

(57)Abstract:

PURPOSE: To enable piercing at a high speed with high accuracy by reflecting a laser beam by a pair of rotationally moving mirrors and providing optical parts for focusing the beams to a prescribed plane.

CONSTITUTION: The galvanomirrors 5, 6 are so rotated and positioned as to irradiate the prescribed piercing position with the laser beam according to the processing data previously inputted to a control unit 16. A light emission trigger signal is sent from this control unit 16 to a CO2 laser oscillator 1 and the laser beam 2 is outputted at a prescribed laser output and width. The laser beam 2 is reflected by the mirrors 3, 4, is polarized in a prescribed direction by the galvanomirrors 5, 6 and is focused by $f\theta$, by which a sheet 9 is irradiated and subjected piercing. The surface of the sheet 9 is nearly perpendicularly irradiated with the converging part of the laser beam 1. The sheet 9 is pierced with the piercing hole perpendicularly to the processing surface thereof with good accuracy.



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